

QUARTERLY
OF
APPLIED MATHEMATICS

EDITED BY

S. S. ANTMAN
H. T. BANKS
H. COHEN
J. D. COWAN

P. J. DAVIS
G. IOOSS
J. HUNTER
I. KONTOYIANNIS
D. MUMFORD

J. R. RICE
J. G. SIMMONDS
L. SIROVICH
M. SLEMROD

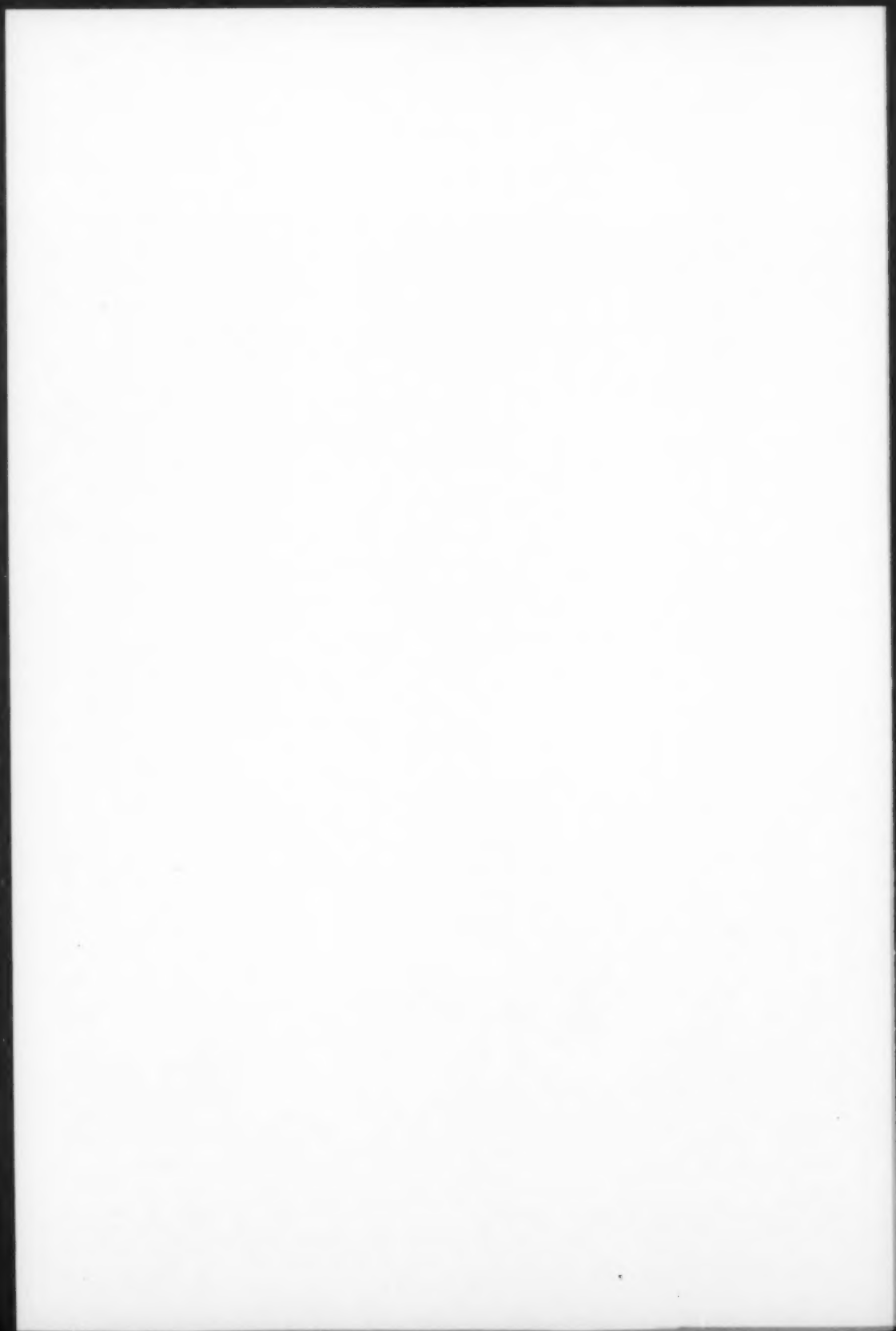
WALTER FREIBERGER
Managing Editor

CONSTANTINE DAFERMOS
Associate Managing Editor

FOUNDER, AND
MANAGING EDITOR 1943-1965
W. PRAGER

VOLUME LXIII

2005



ANNUAL INDEX

- Abramovich, Shoshana. *On frequencies of strings and deformations of beams*, 291
- Alexander, James C. *See* Auchmuty, Giles
- Almog, Y. *Existence and non-existence of solutions to the Ginzburg-Landau equations in a semi-infinite superconducting film*, 1
- Amendola, Giovambattista, and Adele Manes. *Minimum free energy in linear thermoelectromagnetism*, 645
- Asakura, Fumioki. *Wave-front tracking for the equations of isentropic gas dynamics*, 20
- Auchmuty, Giles, and James C. Alexander. *L^2 -well-posedness of 3d div-curl boundary value problems*, 479
- Banks, H. T., and V. A. Bokil. *A computational and statistical framework for multidimensional domain acoustooptic material interrogation*, 156
- Batt, Jürgen, and Renuka Ravindran. *Calculation of shocks using solutions of systems of ordinary differential equations*, 721
- Benhaboucha, Nadia, Michèle Chambat, and Ionel Ciuperca. *Asymptotic behaviour of pressure and stresses in a thin film flow with a rough boundary*, 369
- Bokil, V. A. *See* Banks, H. T.
- Britt, Michael J. C., Lillie Fradin, Kathy Philips, Dima Feldman, and Leon N Cooper. *On sums of consecutive integers*, 791
- Caginalp, G. *Nonlinear price evolution*, 715
- Chambat, Michèle. *See* Benhaboucha, Nadia
- Ciuperca, Ionel. *See* Benhaboucha, Nadia
- Colombo, Rinaldo M., and Piotr Gwiazda. *L^1 stability of semigroups with respect to their generators*, 509
- Cooper, Leon N. *See* Britt, Michael J. C.
- Danilov, V. G., and V. M. Shelkovich. *Delta-shock wave type solution of hyperbolic systems of conservation laws*, 401
- Dassios, George, and Fotini Kariotou. *The direct MEG problem in the presence of an ellipsoidal shell inhomogeneity*, 601
- Deng, Keng, and Cheng-Lin Zhao. *Instability of solutions of a semilinear heat equation with a Neumann boundary condition*, 13
- Dhaliwal, R. S. *See* Singh, B. M.
- Dias, João-Paulo, and Mário Figueira. *On the viscous Cauchy problem and the existence of shock profiles for a p-system with a discontinuous stress function*, 335
- Fan, Haitao, and Tao Luo. *Convergence to equilibrium rarefaction waves for discontinuous solutions of shallow water wave equations with relaxation*, 575
- Feldman, Dima. *See* Britt, Michael J. C.
- Figueira, Mário. *See* Dias, João-Paulo
- Filbet, Francis, Yan Guo, and Chi-Wang Shu. *Analysis of the relativistic Vlasov-Maxwell model in an interval*, 691
- Fleming, Wendell H., and Tao Pang. *A stochastic control model of investment, production and consumption*, 71
- Fradin, Lillie. *See* Britt, Michael J. C.
- Golden, J. M. *A proposal concerning the physical rate of dissipation in materials with memory*, 117
- Guo, Yan. *See* Filbet, Francis
- Gwiazda, Piotr. *See* Colombo, Rinaldo M.
- Heminna, Amar, Serge Nicaise, and Abdoulaye Sène. *Stabilization of a system of anisotropic thermoelasticity by nonlinear boundary and internal feedbacks*, 429
- Hild, Patrick, and Yves Renard. *Local uniqueness and continuation of solutions for the discrete Coulomb friction problem in elastostatics*, 553
- van Horssen, W. T. *See* Zarubinskaya, M. A.
- Ionescu, Ioan R., Daniel Onofrei, and Bogdan Vernescu. *Γ -convergence for a fault model with slip-weakening friction and periodic barriers*, 747
- Kariotou, Fotini. *See* Dassios, George
- Kleinstein, Gerald G. *On the derivation of boundary conditions from the global principles of continuum mechanics*, 469
- Konotop, V. V., and G. Perla Menzala. *Localized solutions of a nonlinear diatomic lattice*, 201
- Kossioris, G., M. Plexousakis, and A. N. Yannacopoulos. *A Hamilton-Jacobi approach to the control of the trapping time of a soliton by an external potential*, 309
- Kuznetsov, Sergey V. *Fundamental and singular solutions of Lamé equations for media with arbitrary elastic anisotropy*, 455

ANNUAL INDEX

- Lakes, Roderic. *See* Wang, Yun-Che
- Lan, Chiu-Ya, and Huey-Er Lin. *Wave patterns for shallow water equations*, 225
- Liboff, Richard L. *Nodal and other properties of the second eigenfunction of the Laplacian in the plane*, 673
- Lin, Huey-Er. *See* Lan, Chiu-Ya
- Liz, Eduardo, Manuel Pinto, Victor Tkachenko, and Sergei Trofimchuk. *A global stability criterion for a family of delayed population models*, 56
- López, José L., and Ester Pérez Sinusía. *Asymptotic approximation of singularly perturbed convection-diffusion problems with discontinuous derivatives of the Dirichlet data*, 527
- Luo, Tao. *See* Fan, Haitao
- Manes, Adele. *See* Amendola, Giovambattista
- Menzala, G. Perla. *See* Konotop, V. V.
- Merodio, J., and R. W. Ogden. *Remarks on instabilities and ellipticity for a fiber-reinforced compressible nonlinearly elastic solid under plane deformation*, 325
- Nawi, Abu Hanipah Bin. *See* Watanabe, Kazumi
- Neff, Patrizio. *Local existence and uniqueness for quasistatic finite plasticity with grain boundary relaxation*, 88
- Neves, Wladimir, and Denis Serre. *The incompleteness of the Born-Infeld model for non-linear multi-d Maxwell's equations*, 343
- Nicaise, Serge. *See* Heminna, Amar
- Ogden, R. W. *See* Merodio, J.
- Onofrei, Daniel. *See* Ionescu, Ioan R.
- Pang, Tao. *See* Fleming, Wendell H.
- Philips, Kathy. *See* Britt, Michael J. C.
- Pinto, Manuel. *See* Liz, Eduardo
- Plexousakis, M. *See* Kossioris, G.
- Ravindran, Renuka. *See* Batt, Jürgen
- Renard, Yves. *See* Hild, Patrick
- Rokne, J. *See* Singh, B. M.
- Rosini, Massimiliano D. *A phase analysis of transonic solutions for the hydrodynamic semiconductor model*, 251
- Schaeffer, Jack. *Steady states of the Vlasov-Maxwell system*, 619
- Sène, Abdoulaye. *See* Heminna, Amar
- Serre, Denis. *See* Neves, Wladimir
- Shelkovich, V. M. *See* Danilov, V. G.
- Shu, Chi-Wang. *See* Filbet, Francis
- Singh, B. M., J. Rokne, and R. S. Dhaliwal. *Contact problem for a wedge-shaped elastic solid in antiplane shear stress distribution*, 545
- Sinusía, Ester Pérez. *See* López, José L.
- Solomin, Jorge E., and Marcela Zuccalli. *A geometric approach to the extended D'Alembert principle of Udadia-Kalaba-Hee-Chang*, 269
- Tkachenko, Victor. *See* Liz, Eduardo
- Trofimchuk, Sergei. *See* Liz, Eduardo
- Vernescu, Bogdan. *See* Ionescu, Ioan R.
- Wang, Yun-Che, and Roderic Lakes. *Stability of negative stiffness viscoelastic systems*, 34
- Watanabe, Kazumi, and Abu Hanipah Bin Nawi. *Exact closed form solution for an anti-plane deformation of anisotropic media*, 301
- Xu, Houbao, Jingyuan Yu, and Guangtian Zhu. *Asymptotic property of a reparable multi-state device*, 779
- Yannacopoulos, A. N. *See* Kossioris, G.
- Yu, Jingyuan. *See* Xu, Houbao
- Zarubinskaya, M. A., and W. T. van Horssen. *On an improved elastic dissipation model for a cantilevered beam*, 681
- Zeng, Shanwu. *See* Zhang, Zhengqiu
- Zhang, Zhengqiu, and Shanwu Zeng. *Periodic solution of a nonautonomous stage-structured single species model with diffusion*, 277
- Zhao, Cheng-Lin. *See* Deng, Keng
- Zhu, Guangtian. *See* Xu, Houbao
- Zuccalli, Marcela. *See* Solomin, Jorge E.

